**SERVICE BULLETINS**

2 011 LCD Option Byte Table  
ASC20110624001.pdf

**FIRMWARE**

No current changes as of  
12/29/11

Be sure to check for latest SW updates.

**PARTS (Board Assemblies)**

Be sure to check for latest parts updates.

**HELP** : 1-888-751-4086; 1-866-894-0637 (FE)

GSPN

<http://gspn3.samsungcsportal.com>

**PLUS ONE**

<http://my.plus1solutions.net/clientPortals/samsung>

**HOT TIPS**

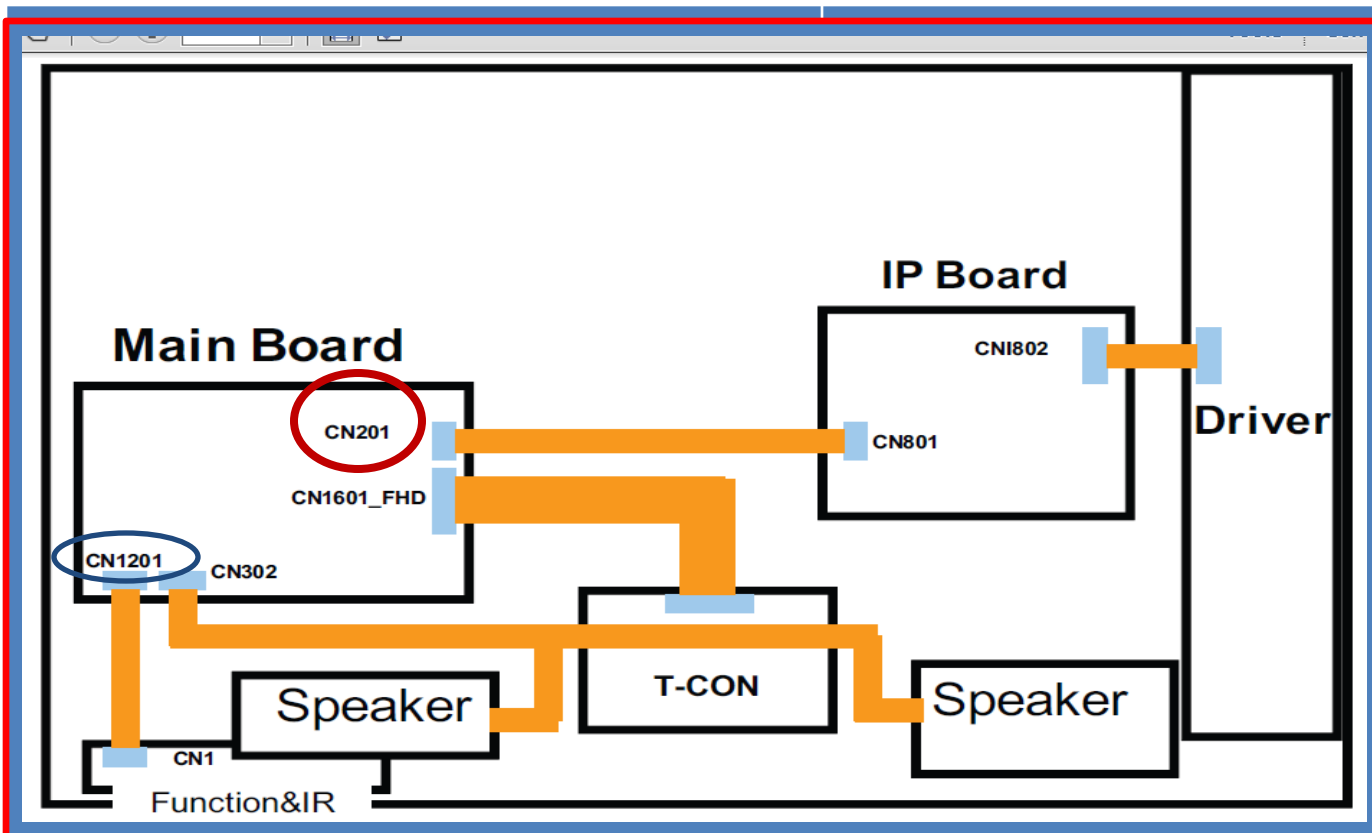
**Power On Problems:** (see page 2)

**Video Problems:** (see pages 3,4)

**GSPN TIPS:**

No Tips listed

| Model Code     | Side Label | Part No.     |          |       |             |             |
|----------------|------------|--------------|----------|-------|-------------|-------------|
|                |            | Panel Module | Inverter | T-Con | Main B'd    | Power       |
| LN32D550K1FXZA | SQ01       | BN07-00979A  | -        | -     | BN94-04509R | BN44-00438B |



| 1 CN201 (To Powr board) |          |    |             |
|-------------------------|----------|----|-------------|
| 1                       | B5 V     | 8  | GND         |
| 2                       | SW_POWER | 9  | B12VS       |
| 3                       | B5 V     | 10 | SW_INVERTER |
| 4                       | A5 V     | 11 | B13 V       |
| 5                       | GND      | 12 | NC          |
| 6                       | GND      | 13 | B13 V       |
| 7                       | B12VS    | 14 | PWM_DIMM    |

### Power On Sequence (approximate Voltages)

1. **Standby Voltages:** CN201-4 (5V)
2. **Power On** CN201- 2(0 – 3.5V )
3. **Low Voltage Supplies On** CN201-1,3,7,9, 11, 13 (Volts Listed on CN201)
4. **Back Light On** CN201- 10(0-5V delayed)
5. **Back Light Confirm** CNI802- “0VP” (approx 03 Volts Dim - .1 Volts bright)
6. **Dimming Signal** CN201-14 (1V–4V approx)

### To Force Backlight On without Main Board :

1. Remove Power Cord
2. Remove CN 801
3. Plug Power Cord In.
4. Backlight should be on immediately.

| 6 CN1201 (FUNCTION) |       |   |           |
|---------------------|-------|---|-----------|
| 1                   | IR    | 5 | MSDA      |
| 2                   | GND   | 6 | FUNC_INTR |
| 3                   | A3.3V | 7 | LED_STB   |
| 4                   | MSCL  | 8 | NC        |

## TROUBLESHOOTING VIDEO PROBLEMS

### 1. Verify Video Operation

- Boot Logo with power on
- Customer Picture Test** in user menu
- "Display"** (If display and Boot Logo & Customer Picture Test is OK the source or cables are first suspected. Then check for a defective input on the Main Board.)
- Substitute with known good Source  
(**external DVD or Signal Generator** to check inputs on Main Board)

### 2. Using Test Patterns in Service Mode

- **ENTER SERVICE MODE** -

- Select an active source signal since Test Pattern may rely on signal source to appear or select TV Source mode.

#### Customer Remote

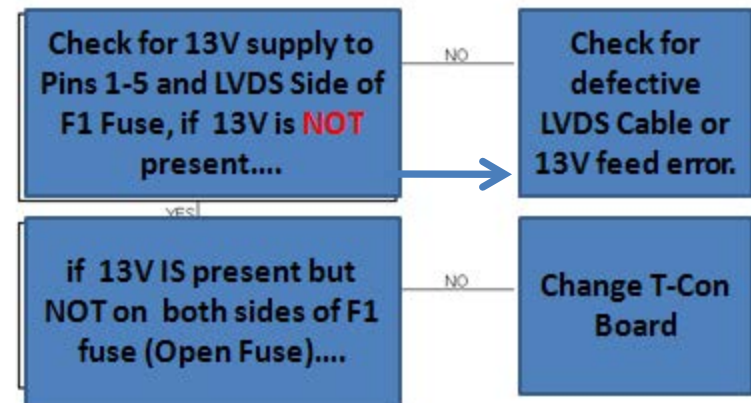
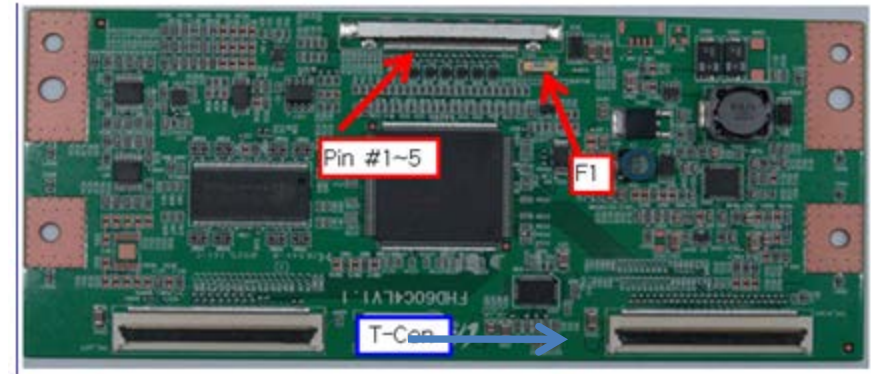
- Power Standby
- Mute, 182, Power On

#### Service Remote

- Power On
- Info, Factory

- Select SVC
- Select Test Patterns

### T-Con Troubleshooting



## ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors  
Defective Main Board, LVDS,  
or T-CON



Green lines or a green screen  
defective main board , LVDS , or  
T-CON.

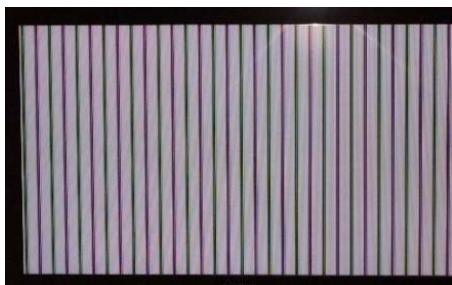


Original Image



Image on Screen

Pixelization can be caused by the main board  
but is more commonly a source error



Vertical or Horizontal Lines :Defective  
Panel likely but also T-CON, LVDS, or Main  
Board. Use Test Patterns in Factory Service  
Mode to determine error)

## ALIGNMENTS:

### 1. Check/Set Option Bytes: in Service Mode

| Option   |                                    |
|----------|------------------------------------|
| Control  | T - MIST4AUSC - XXX                |
| SVC      | T - MIST4AUSB - XXX                |
| Expert   | E - Manual: UX5ATSCA-XXXX          |
| ADC / WB | EDID SUCCESS                       |
|          | HDCP: SUCCESS                      |
|          | CALIB: AV / COM / PC / HDMI /      |
|          | Option: XXXX XXXX XXXX X           |
|          | SDAL - XXX                         |
|          | RFS: P0154 T - TDTSKSRSC           |
|          | KERNERL MODULE VERSION: "XXXXX_XX" |
|          | 20XX -XX - XX                      |
|          | TYPE: XXXXXX                       |
|          | MAC Not Available                  |
|          | FACTORY DATA VER: XXX              |
|          | EERC VERSION: XXX                  |
|          | DTP - AP - COMP - 310 - 01         |
|          | DTP - HWG - 0304                   |
|          | DTP - BP - 0314                    |
|          | DATE OF PURCHASE: XX / XX / XX     |

| Factory Reset   |         |
|-----------------|---------|
| Type            | 50HSHB4 |
| Model           | P8550   |
| TUNER           | ALPS    |
| Region          | US      |
| DDR             | SAMSUNG |
| Light Effect    | Off     |
| Inch            | 50"     |
| Exhibition Mode | Off     |

| Model<br>Code      | Front<br>Color |          |       |        |        |  |  |
|--------------------|----------------|----------|-------|--------|--------|--|--|
|                    |                | Type     | Model | Tuner  | Region |  |  |
| LN32D550K1<br>FXZA | T-R-<br>BLK    | 32A6AF0C | LD550 | SI_ATC |        |  |  |

2. Check/Perform latest Firmware  
Upgrade for all repairs.

3. Perform reset in Service Mode &  
Plug and Play if Main board is replaced.

## SPECIAL NOTES:

Inform customer of reset of all  
Settings if Main Board or Panel is replaced.